

Fig. 1

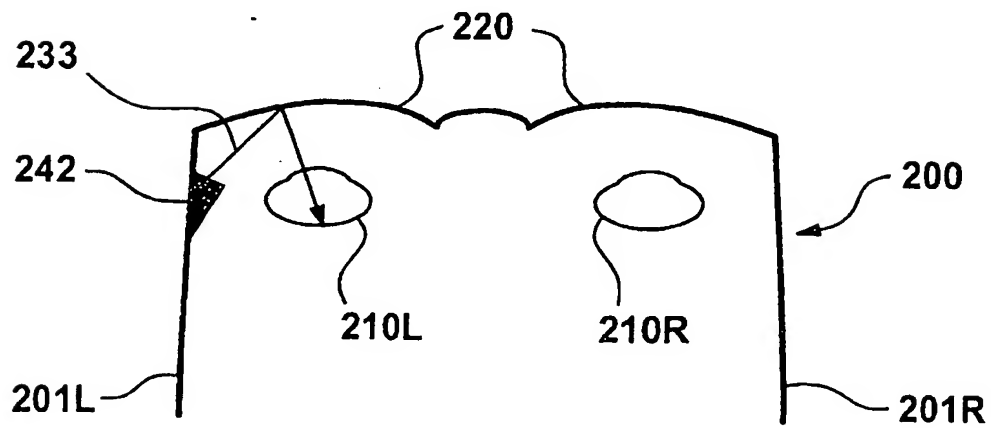


Fig. 2

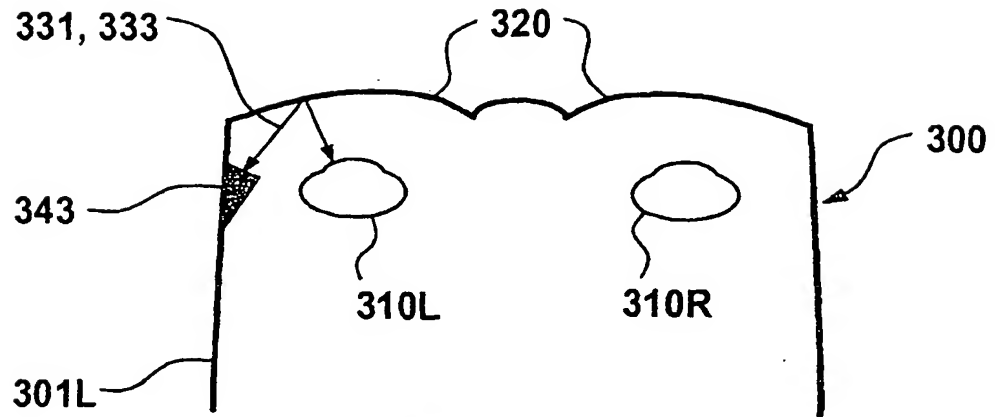


Fig. 3

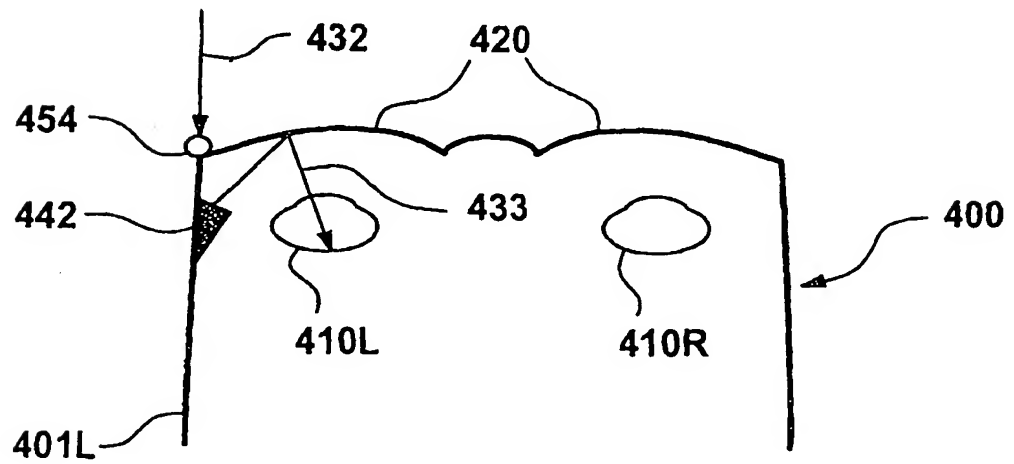


Fig. 4

This diagram illustrates a laser scanning system. A mobile robot (610) is shown with a laser scanner (611) mounted on its top surface. The scanner emits multiple laser beams (631a, 631b) that reflect off a curved surface (620) and return to the scanner. A sensor unit (641) is connected to the robot via a cable (642). The sensor unit includes a sensor (643) and a display (644). The sensor receives data from the robot and displays it on the display. A dashed line (645) indicates a boundary or a specific area of interest.

Fig. 6

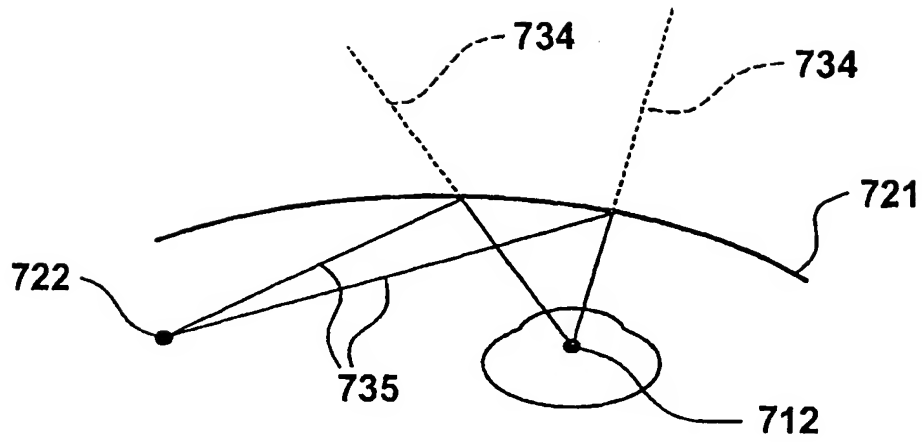


Fig. 7A

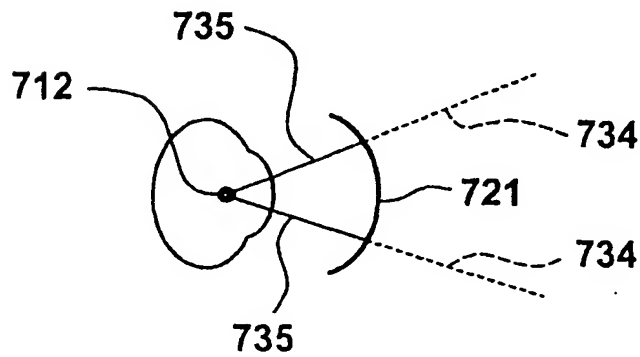


Fig. 7B

This diagram illustrates a laser scanning system. A vehicle, represented by a rectangle labeled 843, is shown emitting a laser beam, labeled 836, towards a curved surface labeled 821. The beam reflects off the surface at a point marked with an 'X' labeled 822. The reflected beam is labeled 835. Below the surface, a circular area labeled 810 is shown, with a point labeled 835 inside it, indicating the projected position of the reflection.

Fig. 9A

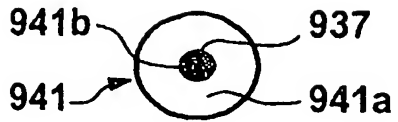


Fig. 9B



Fig. 9C



Fig. 9D

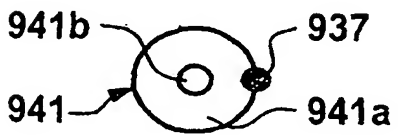


Fig. 9E

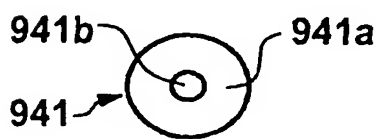


Fig. 10A

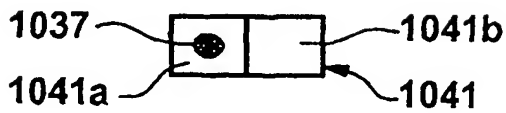


Fig. 10B

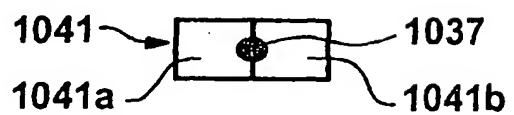


Fig. 10C

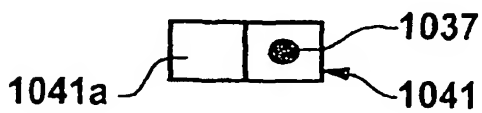


Fig. 10D

